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Altri autori (Persone)	AccardiL <1947-> (Luigi) OhyaMasanori <1947-> WatanabeN <1938-> (Noboru)
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Nota di contenuto	Contents ; Preface ; Coherent Quantum Control of A-Atoms through the Stochastic Limit ; 1 Introduction ; 2 An atom in a laser field ; 3 The stochastic limit ; 4 The quantum master equation ; 5 Stationary states for a two-level atom ; 6 Stationary states for a three-level atom 7 Three-level lambda-atom 8 Two-level 3-times degenerate atom ; 9 Conclusions ; References ; Recent Advances in Quantum White Noise Calculus ; 1 Emergence of white noise equations from classical quantum mechanics ; 2 Quantum white noise unitary evolutions 3 Higher powers of white noise 4 Applications to quantum stochastic control ; References ; Control of Quantum States by Decoherence

; 1 Introduction ; 2 A master equation driving to a pre-
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 Assimilation of the state
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 model ; References ;
 Logical Operations Realized on the Ising Chain of N Qubits
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 ; 1 Introduction ; 2 Notation for Fermion Systems
 ; 3 Product Extension
 4 A Pair of Pure and General States for Two Subsystems
 5 Examples ; References ; Quantum Filtering and
 Optimal Feedback Control of a Gaussian Quantum Free Particle
 ; 1 Introduction ; 2 The Model ; 3 Quantum
 Filtering ; 4 Control ; 5 Discussion
 ; References
 On Existence of Quantum Zeno Dynamics

Sommario/riassunto

The main purpose of this volume is to emphasize the multidisciplinary
 aspects of this very active new line of research in which concrete
 technological and industrial realizations require the combined efforts
 of experimental and theoretical physicists, mathematicians and
 engineers.
Contents:

- Coherent Quantum Control
of -Atoms through the Stochastic Limit (L Accardi et al.)
- Recent Advances in Quantum White Noise Calculus (L
Accardi & A Boukas)
- Joint Extension of States of Fermion
Subsystems (H Araki)
- Fidelity of Quantum Teleportati